## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION            | INITIALS | ID NO. | DATE     |
|---------------------|----------|--------|----------|
| FEE DETERMINATION   |          | 10-    | 11/19/99 |
| Q.I.P.E. CLASSIFIER | 4.4      | 9      | 11.19.99 |
| FORMALITY REVIEW    | BF       | 70556  | A-3-99   |

## INDEX OF CLAIMS

| , |                            |     | Non-elected  |
|---|----------------------------|-----|--------------|
|   | Allowed                    | - 1 | Interference |
|   | (Through numeral) Canceled | Α   | Appeal       |
|   | Restricted                 | Ω   | Objected     |

| Clai     | im l       |          | _      |      |        | _  | Date    | 8  | _         |                         |        |         | )        | Ci       | im       |          |          |          | D        | ate      |                         |          |                         |          | ]        | a        | aim      | $\Box$   |    | _  |         | Date      | •        |          | _        | _ | _ |
|----------|------------|----------|--------|------|--------|----|---------|----|-----------|-------------------------|--------|---------|----------|----------|----------|----------|----------|----------|----------|----------|-------------------------|----------|-------------------------|----------|----------|----------|----------|----------|----|----|---------|-----------|----------|----------|----------|---|---|
| Final    | a          | Ó        | 60     | 2/00 | Y      | 3  | 60      | )  | Γ         | Γ                       | Γ      |         |          |          | Original |          | T        | T        | T        |          |                         |          | T                       | T        |          | -        | Original |          |    |    |         |           |          |          |          | 1 |   |
| 8        | £          | 9        | 9      | ì    | 4:     | 1  | 7       |    |           |                         |        |         | l        | Ē        | ξ        |          | ı.       | $\perp$  |          | 1        |                         |          |                         | 1        | ┙        | E        |          |          |    |    | Ц       |           | _        | _        |          | _ | L |
| -4       | Ť          | Ť        | ٧      | V    |        | Ì  | ᄀ       | _  | -         | Г                       | T      | 1       | 1        | Г        | 51       |          |          | T        | Ι        | Т        | I                       | $\perp$  | I                       | I        |          | L        | 11       |          | Ш  | L  | Ш       | Ц         | _        | _        | 4        | 4 | Ĺ |
| П        | F          | 1        |        | ŀ    | ۲      | ٦  | 7       |    | t         | Г                       | Τ      | Т       | 1        | С        | 52       |          |          | $\perp$  | $\perp$  | 1        | 1                       | ┵        | ┸                       | ┸        | ┛        | $\perp$  | 11       |          | L  | Ļ. | Ц       |           | _        |          | -        | 4 | ŀ |
|          | 3          | 1        | Т      | V    | ۸,     | J  | Ż       |    |           |                         | Τ      | $\Box$  | ]        |          | 53       | 1        | ┙        | $\perp$  | ┸        | 1        | ┸                       | 4        | 1                       | 4        | 4        | $\vdash$ | 11       |          | L  | ļ  | Н       | Н         | _        | -        | -        | - | ŀ |
|          | 4          | T        |        | П    | Ι      | II | Ι       |    |           | L                       | L      | L       | ]        | L        | 54       | 4        | 4        | _        | 4        | 4        | 4                       | +        | +                       | +        | 4        | $\vdash$ | 11       |          | ┝  | ⊢  | H       | Н         |          | $\dashv$ | ┪        | - | ŀ |
|          |            | y        | Ц      | Ц    | 1      | Ш  | $\perp$ |    | 1_        | Ļ.                      | ╀      | 1       | 1        | $\vdash$ | 55       | 4        | +        | 4        | -        | -        | 4                       | +        | 4                       | +        | -        | -        | 11       |          | ⊢  | H  | -       | Н         | Н        | Н        | ┪        | Н | ł |
|          |            | 7        | Ц      | Ц    | 4      | Ш  | 4       | L  | Ļ         | ┡                       | ╄      | ╀       | 1        | $\vdash$ | 56<br>57 | +        | +        | +        | +        | +        | +                       | +        | +                       | +        | -        | $\vdash$ | 11       |          | ┥  | Н  | ┝       | H         |          | Н        | ┪        |   | ł |
|          | 7          | ×        | Ц      | Ц    | Щ      | 41 | 4       | L  | <b>├</b>  | 1                       | +      | ╀       | 4        | -        | 58       | +        | +        | +        | +        | +        | ╅                       | ╅        | ╅                       | ╅        | ┨        | $\vdash$ | 11       |          | ┪  | H  | H       | Н         | Н        | Н        | $\neg$   |   | l |
| Н        | )<br> <br> | 7        | ¥      | Н    | H      | Н  | +       | ┝  | ⊢         | +                       | ╀      | +-      | 1        | $\vdash$ | 59       | +        | +        | +        | +        | +        | +                       | +        | +                       | +        | ┪.       |          | 11       |          | ٢  | Г  |         |           |          | П        |          |   | İ |
| Н        | 3.0        | -        | -      | Н    | ₩      | H  | +       | ⊢  | ⊢         | ╁                       | ╈      | +       | 1        | $\vdash$ | 60       | +        | 1        | 十        | +        | +        | 十                       | +        | 1                       | ┪        | 1        | Г        | 11       |          |    | Γ  |         |           |          |          |          |   | I |
| H        | 3          | H        | -      | Н    | ŀ      | H  | +       | ┝  | ╁         | ╁                       | t      | +       | 1        | -        | 61       | す        | 7        | +        | 十        | 1        | 1                       | 1        | T                       | 1        | 1        |          | 11       |          |    | Г  |         |           | П        | П        |          |   | ١ |
| Н        | 12         | Н        | Ι-     | ۲    | 4      | ~  | Ħ       | 1  | t         | T                       | t      | +       | 1.       | Г        | 62       | T        | $\Box$   | T        | T        |          | $oldsymbol{\mathbb{I}}$ | $\Box$   | $oldsymbol{\mathbb{I}}$ | I        |          |          | þi       |          | _  | Ļ  | L       |           | Ш        | Ш        | Ш        |   | 1 |
| Н        | 13         | $\vdash$ | Т      | t    | †      | ┪  | ┪       | Г  | T         | T                       | T      | İ       | 1        |          | 63       | $\Box$   | I        | I        | $\Box$   | I        | I                       | I        | I                       | $\perp$  | ┛        |          | 11       |          | L  | L  | ╀       | L         | <u> </u> | Н        | Ц        | _ | ļ |
| Г        | 14         |          |        | Í    | 1      |    |         |    | L         | I                       | Γ      | Ι       | 1        |          | 64       | J        | _        | _[       | 4        | 4        | 4                       | 4        | 4                       | 4        | 4        | $\vdash$ | 1        |          | ╀  | -  | ╀       | H         | H        | Н        | Н        | _ | ł |
|          | 15         |          |        | Γ    | Ι      |    | $\Box$  | 匚  | L         | ľ                       | 1      | $\perp$ | 1        | _        | 65       | 4        | 4        | 4        | 4        | 4        | 4                       | 4        | +                       | 4        | 4        | -        | 1        | 16       | ╁  | ╀  | +       | ╀         | -        | Н        | Н        | _ | 1 |
|          | 16         |          | L      |      | I      |    | Ц       | L  | L         | $\perp$                 | 1      | T.      | 4        | 1        | 66       | 4        | 4        | 4        | 4        | 4        | +                       | +        | +                       | +        | 4        | H        | -   1    |          | ╁  | +  | +       | ╁         | ۰        | Н        | Н        | - | 1 |
|          | 17         |          | L      | L    | 4      | _  | 7       | 1_ | ╄         | Ļ                       | 4      | +       | 4        | $\vdash$ | 67       | -        | -        | -        | +        | ┽        | +                       | +        | +                       | +        | -        | ٦H       |          | 18       | +- | ╁  | 十       | ╁         | ╁        | $\vdash$ | Н        | ┢ | 1 |
|          | 18         | 2        | L      | Ļ    | 4      | _  | L       | ┡  | ╀         | ╀                       | 4      | ╀       | 4        | ⊢        | 68       | -        | -        | -        | $\dashv$ | +        | +                       | +        | -+                      | +        | $\dashv$ | \<br>-   | _        | 19       | ╁╌ | t  | ╁╴      | t         | H        | 一        | Н        | _ | 1 |
| L        | 19         | L        | L      | ╀    | 4      | _  | L       | L  | ╀         | ╀                       | +      | 4-      | -        | ⊢        | 69<br>70 | -1       | -        | $\dashv$ | +        | +        | +                       | +        | $\dashv$                | +        | $\dashv$ | $\vdash$ |          | 20       | +  | +  | ╈       | +-        | Н        | $\vdash$ | Н        | Н | 1 |
| L        | 20         | L        | L      | 1    | 4      | _  | L       | Ļ  | ╀-        | +                       | +      | 4       | 4        | +        |          | $\dashv$ | $\dashv$ | +        | +        | +        | +                       | +        | +                       | +        | 4        | H        | _        | 21       | +  | +  | +       | +         | $\vdash$ | -        |          | H | 1 |
| 匚        | 21         | L        | L      | ╀    | 4      | _  | L       | L  | +         | ╀                       | +      | +       | 4        | -        | 71<br>72 | $\dashv$ | $\dashv$ | $\dashv$ | +        | +        | +                       | $\dashv$ | +                       | +        | $\dashv$ | H        |          | 2        | +- | ┿  | ╈       | ╁╴        | Н        |          | Н        | H | 1 |
| ┡        | 22         | ┞        | ļ_     | ╀    | 4      |    | L       | -  | ╀         | ╀                       | +      | ╫       | -        | -        | 73       | $\dashv$ | -        | -+       | +        | +        | ╅                       | ╅        | ┪                       | $\dashv$ | -        | H        |          | 23       | 1  | ┢  | 1       | 1         | Г        | 1        |          | Г | 1 |
| -        | 23         |          | ╄      | ╀    | +      | _  | ⊢       | ⊢  | ╀         | ┿                       | ╁      | ┿       | -        | -        | 74       | $\dashv$ | ┪        | 一        | 1        | +        | ┪                       | _        | ┪                       | ┪        | $\neg$   | 1        | 1        | 24       | 1  | T  | T       | 1         | Γ        |          |          |   |   |
| -        | 25         |          | ⊢      | ╀    | +      |    | ┝       | ╁  | ╁         | ┿                       | +      | ╁       | 1        | H        | 75       | $\dashv$ | -        | ┪        | 7        | 寸        | 7                       | ┪        | ┪                       | ┪        | ┑        |          | 1:       | 25       | Τ  |    |         |           |          |          |          |   | _ |
| -        | 26         | F        | P      | ٠    | +      |    | ┝       | ┢  | ✝         | t                       | +      | +       | 1        | r        | 76       | ヿ        | ┪        | 1        | ╗        | $\neg$   | T                       |          |                         |          |          |          |          | 26       | 1_ | L  | L       |           |          | L        |          | L |   |
| -        | 27         | 1        | t      | t    | +      | -  | H       | t  | 十         | T                       | +      | 1       | 1        |          | 77       |          |          |          | $\Box$   | T        |                         |          |                         |          |          |          |          | 27       | ┸  | L  | 1       | ↓         | ↓_       | ↓_       | <u> </u> | L | _ |
| 一        | 28         | ┢        | t      | t    | +      |    | 1       | T  | 1         | +                       | 1      | 1       | 1        |          | 78       |          |          |          | $\Box$   |          | $\Box$                  | $\Box$   |                         | $\Box$   | _        | L        |          | 26       | ┺  | 1  | ╀       | 1         | H        |          | _        | ┞ | - |
|          | 29         |          |        | Ť    | 7      |    | Г       | T  | T         | Τ                       | T      | Τ       | ]        |          | 79       |          |          |          |          |          | 4                       | _        | 4                       | 4        |          | -        | _        | 29       | +  | 1  | +       | +         | +        | -        | -        | ⊢ | _ |
|          | 30         | Г        |        | Ť    | 7      | _  |         |    | I         | Ι                       | Ι      | $\perp$ | ]        |          | 70       |          | _        | $\perp$  | _        | 4        | 4                       | -1       | -1                      |          | 4        | H        |          | 30<br>31 | ╀  | +  | +-      | ╀         | ╀        | ╀        | ╀        | ╀ | - |
|          | 31         |          | L      | I    | $\Box$ |    | L       | L  | ┸         | 1                       | 4      | 4       | 4        | ┡        | 81       | $\dashv$ | _        | -        | 4        | +        | $\dashv$                | -        | -1                      | -        | $\dashv$ | -        |          | 32       | ╁  | ╁  | ╁╴      | ╁         | 十        | ╁╴       | t        | ۲ | - |
|          | 32         | _        | L      | L    | ┙      | _  | L       | L  | 1         | 1                       | 4      | 4       | 4        | -        | 82       | Ц        | Н        |          | -        | $\dashv$ | -                       | -        | -                       | -1       | -        | H        | _        | 33       | ╁  | t  | ╅       | ╁         | ۲        | ✝        | 1        | t | - |
|          | 33         |          | Ļ      | 1    | 4      | _  | L       | ┺  | 4         | +                       | 4      | +       | 4        | ⊢        | 83<br>84 | Н        | -        | Н        | -        | $\dashv$ | -1                      | -1       |                         | $\dashv$ | ᅥ        | -        |          | 34       | 十  | +  | 十       | t         | 十        | T        | 1        | t | - |
| 느        | 34         | _        | ╀      | +    | 4      | _  | ┡       | ╄  | ╀         | ╀                       | +      | +       | 4        | $\vdash$ | 85       | Н        | -        | Н        | -1       | +        | $\dashv$                | $\dashv$ | ╛                       | $\dashv$ | -1       | H        |          | 35       | +  | 十  | $\top$  | †         | 1        | T        | Т        | T |   |
| L        | 35<br>36   | _        | +      | +    | 4      |    | ₽       | ╀  | +         | ╀                       | +      | +       | 4        | ┝        | 86       | Н        | Н        | $\vdash$ | ┥        | +        | ┪                       |          | ┪                       | $\dashv$ | 一        | ı        |          | 38       | 1  | T  | T       | I         | Ι        | Γ        | L        | L | _ |
| $\vdash$ | 37         | _        | +      | +    | 4      | _  | ⊢       | ╁  | +         | +                       | +      | ┿       | 1        | H        | 87       | Н        | Н        | Н        | 一        | 7        | ᅥ                       | $\neg$   | 7                       |          | J        |          | _        | 37       | Ι  | Ι  | I       | L         | Γ        | I        |          |   |   |
| $\vdash$ | 38         |          | ╀      | ╁    | ┨      | _  | ۲       | ╁  | ╁         | +                       | +      | +       | 1        | r        | 88       | Н        | Н        | П        | T        | コ        | $\neg$                  |          |                         |          | ╗        |          |          | 38       | Ι  |    | L       | Ĺ         | L        | 1        | L        | ┺ | _ |
| $\vdash$ | 39         | •        | 十      | +    | ┨      | _  | ۲       | ۲  | +         | +                       | +      | +       | 1        | 1        | 89       | П        | П        | П        |          | _        |                         |          |                         |          |          |          | _        | 39 .     | I  | Ţ  | $\perp$ | 1         | 4        | 1        | L        | 1 | _ |
| $\vdash$ | 40         | _        | †-     | †    | 1      | -  | H       | t  | t         | 十                       | 1      | 十       | ┪        | Γ        | 90       | П        |          | П        |          |          |                         |          |                         |          |          |          |          | 40       | ┸  | 1  | ┸       | 1         | 1        | ┸        | ╀        | 1 | _ |
| $\vdash$ | 41         | -        | +      | +    | ᅥ      | -  | t       | ۲  | +         | +                       | +      | +       | 1        | r        | 91       | П        | П        | П        |          |          |                         |          |                         |          |          |          |          | 41       |    | 1  | 1       | l         | 1        | 1        | ╀        | 1 | _ |
| H        | 42         | _        | +      | †    | ┪      | -  | ٢       | ۲  | +         | +                       | +      | +       | 1        | ı        | 92       |          |          |          |          |          |                         |          |                         |          |          |          | _        | 42       | 4  | ļ  | 4       | +         | 1        | +        | +-       | ╀ | _ |
| 1        | 43         |          | t      | †    | ٦      | Г  | ۲       | 1  | $\dagger$ | 1                       | 7      | 1       | ]        |          | 93       |          |          |          |          |          |                         | Ш        |                         | Ш        | Ц        | L        |          | 143      | 4  | +  | 4       | +         | +        | +        | ╀        | ╀ | _ |
| $\vdash$ | 44         | -        | +      | †    |        | Г  | T       | 1  | 1         | 丁                       | _†     | _       | ]        |          | 94       |          |          |          |          |          |                         |          |                         | L        | Ц        | -        |          | 144      | 4  | 4  | +       | +         | +        | +        | ╀        | + | _ |
| $\vdash$ | 4          |          | T      | 1    |        |    |         | I  | I         | I                       |        | $\Box$  |          |          | 95       |          |          |          |          | Ш        |                         | $\sqcup$ | _                       |          | Н        | -        | _        | 45       | +  | +  | +       | +         | ┿        | +        | ╁        | + | - |
| Г        | 46         | 1        | Ι      | J    |        |    | Γ       | Ι  | I         | $oldsymbol{\mathbb{I}}$ | $\Box$ | I       | _        |          | 96       | _        | L        | L        | $\sqcup$ | Ц        | Щ                       | <u> </u> | Ľ                       | L        | Н        | -        |          | 147      | +  | +  | +       | +         | +        | +        | +        | + | - |
| Г        | 47         |          |        | 1    |        |    | L       | I  | $\perp$   | $\perp$                 | _      | 1       | _        | L        | 97       | L        | 1        | ـ        | <u> </u> | Н        | Щ                       | <b> </b> | <u> </u>                | -        | H        |          |          | 148      | ╁  | ╫  | +       | +         | +        | +        | +        | + | - |
|          | 48         | -        | ŀ      | I    |        | Ĺ  | Ļ       | 1  | 4         | 4                       | 4      | 4       | 4        | ŀ        | 98       | ⊢        | 1-       | ╀        | H        | $\vdash$ | Н                       | -        | ┝                       | -        | Н        |          | _        | 149      | +  | +  | ╁       | $\dagger$ | +        | +        | 十        | † |   |
|          | 48         |          | $\bot$ | 4    |        | L  | 4-      | +  | +         | +                       | 4      | +       | $\dashv$ | H        | 99       | ├        | ⊢        | ╁        | H        | Н        | Н                       | -        | $\vdash$                | 1        | Н        | 1        |          | 150      | +  | 1  | 士       | 士         | 土        | 丁        | 1        | I | _ |
| L        | 50         | <u>ı</u> | ┸      |      |        | _  | ١.      | ı  | ┛-        |                         | _1     | _       | _        | L        | 1100     | 1_       |          |          |          | _        |                         |          |                         | _        |          |          | _        |          |    |    |         |           | _        |          |          |   |   |

If more than 150 claims or 10 actions staple additional sheet here

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